

WHAT IS CLAIMED IS:

1. A laminate for producing a paper package comprising: a paper substrate; and a five layer coextrusion coated onto the substrate, the five layer coextrusion comprising: a first layer of low density polyethylene, a first adhesive tie layer, a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, a second adhesive tie layer, a second layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.

2. The laminate for producing a paper package in accordance with claim 1, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

3. The laminate for producing a paper package in accordance with claim 1, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

4. The laminate for producing a paper package in accordance with claim 1, wherein the ethylene vinyl alcohol copolymer has an ethylene content of 44%.

5. The laminate for producing a paper package in accordance with claim 1, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

6. The laminate for producing a paper package in accordance with claim 1, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

7. The laminate for producing a paper package in accordance with claim 1, wherein the substrate is paperboard.

8. The laminate for producing a paper package in accordance with claim 1, further comprising a layer of linear low density polyethylene and a layer of low density polyethylene applied between the five layer coextrusion and the substrate.

9. The laminate for producing a paper package in accordance with claim 2, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

10. A package produced from a laminate comprising: a paper substrate; and a five layer coextrusion coated onto the substrate, the five layer coextrusion comprising: a first layer of low density polyethylene, a first adhesive tie layer, a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, a second adhesive tie layer, a second layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.

11. The package produced from a laminate in accordance with claim 10, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

12. The package produced from a laminate in accordance with claim 10, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

13. The package produced from a laminate in accordance with claim 10, wherein the ethylene vinyl alcohol copolymer has an ethylene content of 44%.

14. The package produced from a laminate in accordance with claim 10, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

15. The package produced from a laminate in accordance with claim 10, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

16. The package produced from a laminate in accordance with claim 10, wherein the substrate is paperboard.

17. The package produced from a laminate in accordance with claim 10, further comprising a layer of linear low density polyethylene and a layer of low density polyethylene applied between the five layer coextrusion and the substrate.

18. The package produced from a laminate in accordance with claim 11, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

Subject → 19. (New) A laminate for producing a paper package comprising: a paper substrate; and a three layer coextrusion coated onto the substrate, the three layer coextrusion comprising a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, an adhesive tie layer, and a layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.

AI 20. (New) The laminate as claimed in claim 19, further comprising an adhesive tie layer coated on the paper substrate between the substrate and the three layer coextrusion.

21. (New) The laminate for producing a paper package in accordance with claim 19, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

22. (New) The laminate for producing a paper package in accordance with claim 19, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

23. (New) The laminate for producing a paper package in accordance with claim 19, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

Subc2 → 24. (New) The laminate for producing a paper package in accordance with claim 19, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

25. (New) The laminate for producing a paper package in accordance with claim 19, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.

Subc3 → 26. (New) A package produced from a laminate comprising: a paper substrate; and a three layer coextrusion coated onto the substrate, the three layer coextrusion comprising a blend barrier layer made from ethylene vinyl alcohol copolymer and a polyolefin, an adhesive tie layer, and a layer of low density polyethylene; wherein the blend barrier layer comprises 35%-95% ethylene vinyl alcohol copolymer.

27. (New) The package produced from a laminate in accordance with claim 26, further comprising a polyolefin layer coated onto an uncoated side of the paper substrate.

28. (New) The package produced from a laminate in accordance with claim 26, wherein the ethylene vinyl alcohol copolymer has an ethylene content ranging from 29-50%.

29. (New) The package produced from a laminate in accordance with claim 26, wherein the polyolefin of the blend barrier layer is low density polyethylene, linear low density polyethylene or polypropylene.

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30. (New) The package produced from a laminate in accordance with claim 26, wherein the first and second adhesive tie layer is a modified polyethylene or modified polypropylene.

31. (New) The package produced from a laminate in accordance with claim 26, wherein the blend barrier layer comprises 50% ethyl vinyl alcohol copolymer with an ethylene content of 44 mole % and 50% low density polyethylene.
